

Title (en)

Membrane process for treatment of fluorinated hydrocarbon-laden gas streams.

Title (de)

Membranverfahren zur Behandlung von mit Fluorkohlenwasserstoffen beladenen Gasströmen.

Title (fr)

Procédé à membrane pour le traitement de courants de gaz chargés d'hydrocarbures fluorées.

Publication

EP 0389126 A2 19900926 (EN)

Application

EP 90302129 A 19900228

Priority

US 32786089 A 19890323

Abstract (en)

A membrane process for separating fluorinated hydrocarbon vapors is disclosed. The process employs a permselective membrane that is selectively permeable to fluorinated hydrocarbons over oxygen or nitrogen. The process involves contacting the feed side of the membrane with a gas mixture containing the fluorinated hydrocarbon vapor, and withdrawing from the permeate side a vapor enriched in the fluorinated hydrocarbon component. The driving force for membrane permeation is preferably provided by maintaining a partial vacuum on the permeate side of the membrane. Eighty to 99% of the fluorinated hydrocarbon contained in the feedstream can be removed by the process. The permeate may be sufficiently enriched in fluorinated hydrocarbon to permit recovery and reuse. Very high membrane selectivities are not required

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Cited by

EP0537599A1; US5814127A; US5968334A; US6605133B1; WO9219358A1; US6254666B1; US6444011B2; WO9828062A1; WO9219359A1

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